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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,267	01/19/2001	Wen Tong	11962ROUS02U	1339
75	90 02/10/2006		EXAM	INER
Bruce E. Garlick			nguyen, hanh n	
Garlick & Harri	ison		1001010	DA DED MINADED
P.O. Box 691			ART UNIT	PAPER NUMBER
Spicewood, TX 78669-0691			2668	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/766,267	TONG ET AL.		
Office Action Summary		Examiner	Art Unit		
		Hanh Nguyen	2668		
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. I period for reply is specified above, the maximum statutory period w are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
·	Responsive to communication(s) filed on <u>Americal Structure</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro			
Dispositi	ion of Claims				
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-15 and 17-24</u> is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) <u>24</u> is/are allowed. Claim(s) <u>1-6,8-13,15 and 17-23</u> is/are rejected. Claim(s) <u>7 and 14</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority (ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 					
* 5	See the attached detailed Office action for a list	of the certified copies not receive			
2) Notic 3) Inform	t(s) re of References Cited (PTO-892) re of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,917,603 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1 and 8 of the instant application discloses repeatedly and sequentially wirelessly transmitting time division multiplexed **slots** to the plurality of users; while claim 1 of the Patent discloses repeatedly and sequentially wirelessly transmitting time division multiplexed **superframes** to the plurality of users. Therefore, it would have been obvious to one skilled in the TDM slots can occupy in more than one frames.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 2, 6, 8, 9, 13 and 15 are rejected under 35 USC 102(e) as being anticipated by Mochizuki (US pat. No. 6,628,633 B1).

In claims 1, 8 and 15, Mochizuki discloses a method for operating a base station to repeatedly and sequentially transmit data communications to a plurality of user terminals on a single wireless carrier over frames T1-T5 (wirelessly transmitting time division multiplexed superframes to the plurality of user terminals (fig.5 discloses transmitting forward packets over frames T1-T5 to terminals 1 and 2, col.8, lines 15-30); wherein each time division multiplex superframe comprises a plurality of high speed data frames (information comprised in frames is multimedia such as audio, image, data, see col.6, lines 55-60); wherein each of the high speed data frames carries at least one data communication (fig.5, frame T4 carries data for terminal 2; frame T5 carries data for terminal 1, col.8, lines 25-30); and wherein each of the high speed data frames includes a respective indication of at least one user terminal for which the at least one data communication is intended (see fig.3, destination address attached to the forward packet so that mobile terminal checks the destination address to determine whether the forward packet is

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a packet of its own destination, see col.7, lines 30-35 & col.8, lines 60-67); and a respective indication of at least one data rate of the high speed data frame (fig. 5, col.8, lines 15-30; forward packet from base station to terminal 1 is transmitted at rate R1 over frames T1, T2). Mochizuki further discloses determining a data rate of the particular high speed data frame based upon the respective indication; and receiving the data communication at the data rate (each mobile unit looks at destination address in the forward packet to determine whether the transmitted data are for it. The mobile unit despreads forward spreading codes for possible rates R1, R2 and R3; see col.8, lines 63-67).

In claims 2 and 9, Mochizuki discloses, in Fig.5, supporting a plurality of data rates within high peed data frame (See col.8, lines 22-30).

In claims 6 and 13, Mochizuki discloses each of the high speed data frames of the superframe further includes a pilot signal; and a plurality of reverse link power control bits intended for the plurality of user terminals (base station adjusts the transmission power of forward packet and sends a power control signal to the mobile terminal, see col.11, lines 30-42). Therefore, the power control signal is well-known in the art to include a pilot signal and power control bits.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21-23 are rejected under 35 USC 103(a) as being unpatentable over Mochizuki (US pat. No. 6,628,633 B1) in view of Hunsberger (US pat. 6,167,282).

In claims 21, 22 and 23 as explained by the rejection of claim 1, Mochizuki further discloses the base station (fig.8) comprising an antenna 501(antenna); circular 502 coupled to the antenna 501(RF unit coupled to the antenna); packet control apparatus 530 (at least one digital processor). Mochizuki does not explicitly disclose the digital processor (the packet control processor 530) executing software instructions causing the base station to perform the above steps. Hunsberger discloses, in fig.2, a base station 200 comprising a processor 203. The processor 203 executes software instructions stored in memory 204 in order to perform various tasks including transmit/receive signal via a transceiver 202 of base station 200. See col.3, lines 22-40. Therefore, it would have been obvious to one ordinary skilled in the art to store software instructions taught by Hunsberger into the memories 551-553 (fig.9) of Mochizuki in order to perform required claimed limitations.

Claims 3-5, 10-12, and 17-20 are rejected under 35 USC 103(a) as being unpatentile over Mochizuki (US pat. 6,628,633 B1) in view of Rydbeck et al. (US Pat. No.6,332,006 B1),

In claims 3, 4, 5, 10, 11 and 12, Mochizuki does not disclose different coding types, coding frames with Walsh codes; and modulation scheme within a frame. Rydbeck et al. discloses, in Fig.6a, a base station 610 encodes data message (high rate data), voice messages (low rate data) by a convolution coding, Walsh coding (coding messahe by first coding type, second coding type) before transmitting to subscriber 650. The encoded messages is Pi/4-DQPSK modulated before being transmitted to the subscriber 650 (modulating scheme). See col.10, lines 5-25 & col.11, lines 35-45. Therefore, it would have been obvious to one ordinary

skilled in the art to combine the encoding methods of Rydbeck et al. into Mochizuki in order to reduce error and protect confidential data from being detected by undesired receivers.

In claims 17 and 18, Mochizuki discloses receiving data of the frame; and determine that the data frame is intended for the user terminal in claim 15. Mochizuki does not disclose decoding a portion of superframe with Walsh codes; decoding data frame using a first coding type; decoding data in frame using a second coding type. Rydbeck et al. discloses, in Fig. 6B, the subscriber 650 receiving encoded messages, demodulates the messages as in Fig. 5B (first decoding type); decodes the messages by Walsh transform 652 (second decoding type). See col. 10, lines 33-45. Therefore, it would have been obvious to one ordinary skill combine the decoding technics of Rydbeck et al. into Mochizuki in order to determine whether the transmitted data is intended to the terminal.

In claims 19 and 20, the limitations of these claims have been adressed in claims 1 and 15.

Allowable Subject Matter

Claims 7 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

In claims 7 and 14, the prior art does not disclose a high speed data frame including a secondary explicit data rate indicator indicating a user terminal of the plurality of user terminals for which a second portion of the high speed data frame is intended.

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Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered. Claims 1-6, 8-13, 15, and 17-23 are most in view of the new ground(s) of rejection. Claims 24 is allowed over the prior art. Claims 7 and 14 are objected to as being dependent from a rejected base claim.

In claims 1 and 8, Applicant argues that the forward packet in Mochizuki does not disclose a respective indication of transmission rate.

Refer to Fig.5 in Mochizuki, respective indication of transmission rate in the forward packets from base station are rate R1 in data for terminal 1 is transmitted over frames T1, T2; rates R3 in data for terminal 2 is transmitted over frame T4; rate R2 in data for terminal 1 is transmitted over frame T5 respectively. (see col., lines 15-30). Therefore, examiner believes that Mochizuki teaches all claimed limitations.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The examiner can normally be reached on Monday-Friday from 8:30 to 4:30. The examiner can also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on 571 272 3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh Nguyen Primary Examiner

HANH NGUYEN PRIMARY EXAMINER